

## 8200 Current Output Transmitter

**Signal transmission for accurate level measurement in storage tanks**



# 8200 Current Output Transmitter

The Model 8200 is a precision analogue transmitter designed to relay level information via field communications to the control room. The unit mounts directly to the 2500 Automatic Tank Gauge (ATG), 2592 Cover Position Indicator and, with the use of an elbow drive adapter, 6700 Liquid Level Indicator. The 8200 is designed to provide an increase in current output with a rising level using a 4-



20 mA or 10-50 mA signal which varies in direct proportion to the liquid level. It can also be ordered with a reverse "outage" reading output. The 30 volts DC required for operation may be supplied by the user or through a 115 or 230 V<sub>ac</sub> on-board power supply. Nine (9) different factory calibrated level ranges (fractional or Metric reference dials) are available with a range adjustment of 50% to 100% of specified range.

## Technical specifications

### Enclosure

Epoxy painted, water tight, explosion proof cast aluminum enclosure suitable for installation in Class I, Division 1, Groups C&D Hazardous areas  
Conduit entries: 3/4" NPT  
Signal wires: Two (2) conductors

### Operating temperature

-25 °C to +85 °C (-13 °F to +185 °F)

### Operating humidity

0 to 95% r.h. non-condensing

### Physical

203 mm Ø x 336 mm length  
(8.0" Ø x 13.25" length)  
Weight: 7.3 kg (16 lb)

### Power requirements

15 to 48 V<sub>dc</sub>  
115 V<sub>ac</sub> ±10% 50/60 Hz  
(on-board 30 V<sub>dc</sub> power supply)  
230 V<sub>ac</sub> ±10% 50/60 Hz  
(on-board 30 V<sub>dc</sub> power supply)  
Operating voltage: 15 V<sub>dc</sub> – minimum,  
48 V<sub>dc</sub> – maximum

### Safety approvals

Factory Mutual (FM) J.I. File No. 1K3A6.AE, 1K3A7, AE, 1T749.AF, Class I, Division 1, Groups C&D NEMA Type 4 Canadian Standards Assoc. (CSA) File No. LR40894-24, Class I, Division 1, Groups C&D Type 4 ISSeP (Iniex) File No. 85.103.422  
Eex d IIB T5  
CENELEC – designed to meet IP65

### Output

4-20 mA or 10-50 mA,  
jumper selectable

### Functional specifications

Accuracy: 0.25% at 100% span, 0.35% at 45% span  
Available ranges:  
Meters: 0-3.75 m, 0-7.5 m, 0-15 m, 0-24 m  
Feet: 0-5.0 ft, 0-12.5 ft, 0-25 ft, 0-50 ft, 0-100 ft  
Range adjustment: 50% to 100%  
Span adjustment: 45% to 105%



### At a glance

Mounts directly to the 2500 ATG, 2592 Cover Position Indicator and 6700 Liquid Level Indicator

Mounting adapters available for other standard float gauges

Two wire, industry standard 4-20 mA output

115 or 230 V<sub>ac</sub> on-board power supply available

Highly accurate – 0.25% over full range

Fully approved to FM – Class I, Division 1, Groups C&D with optional CSA and CENELEC configurations available

Water tight, NEMA Type 4 enclosure

### Allowable loop resistance (Loop Plus Line)

8200 with 48 V<sub>dc</sub> by user:  
1500 Ohms (max)  
8200 with integral DC supply:  
500 Ohms (max)

### Options and accessories

Two or four SPDT N.O. cam-operated limit switches "reverse" reading output conduit junction box (standard with CSA & CENELEC models)

### Locations

Endress+Hauser  
Systems & Gauging, Inc.  
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